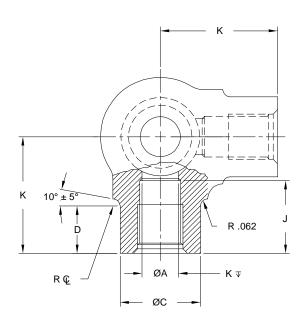
INCH-POUND

MS21959C 15 June 2000 SUPERSEDING MS21959B 20 June 1975

### **DETAIL SPECIFICATION SHEET**

## BODY, CLUSTER FITTING, TWO-WAY, 90°, INTERNAL BOSS

This specification is approved for use by all Departments and Agencies of the Department of Defense .



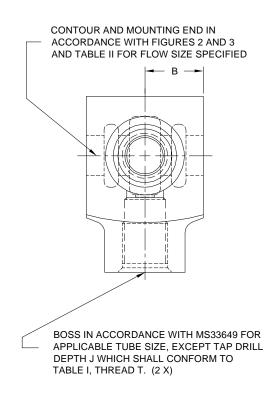


FIGURE 1. Body, cluster fitting.

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AMSC N/A FSC 4730 DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.

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TABLE IA. <u>Dimensions for low flow sizes</u>.

Low Flo	Low Flow Size		Thread T	Α	В	С	D	J	K
Al Alloy		OD	SAE AS8879			± .031	± .031		
7075	<u>1</u> / 2014/202 4								
W4L	-4L	.250	.4375-20UNJF-3B	.312	.500	.688	.406	.625	1.062
W5L	-5L	.312	.500-20UNJF-3B	.344	.500	.750	.438	.625	1.094
W6L	-6L	.375	.5625-18UNJF-3B	.344	.500	.812	.469	.625	1.125

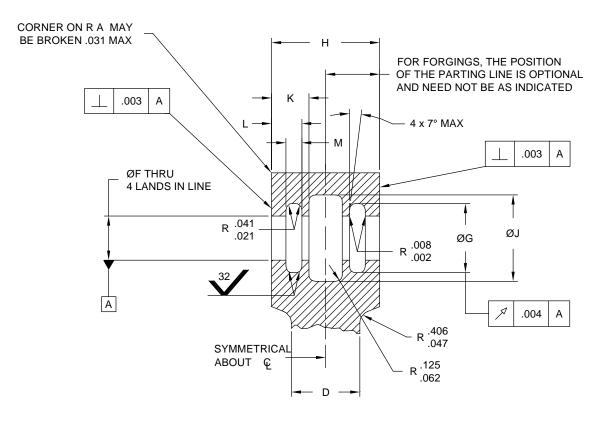
<sup>1/</sup> Aluminum alloy 2014 and 2024 parts are cancelled. Use Aluminum alloy 7075 parts for new design. Cancelled parts may be used till stock is exhausted.

TABLE IB. <u>Dimensions for high flow sizes</u>.

High Flow Size		Tube	Thread T	Α	В	С	D	J	K
Al	Al Alloy 1/	OD	SAE AS8879			± .031	± .031		
Alloy									
7075	2014/2024								
W4H	-4H	.250	.4375-20UNJF-3B	.312	.594	.688	.297	.625	1.219
W5H	-5H	.312	.500-20UNJF-3B	.375	.594	.750	.312	.625	1.250
W6H	-6H	.375	.5625-18UNJF-3B	.406	.594	.812	.375	.625	1.312
W8H	-8H	.500	.750-16UNJF-3B	.422	.594	.1.125	.625	.750	1.500

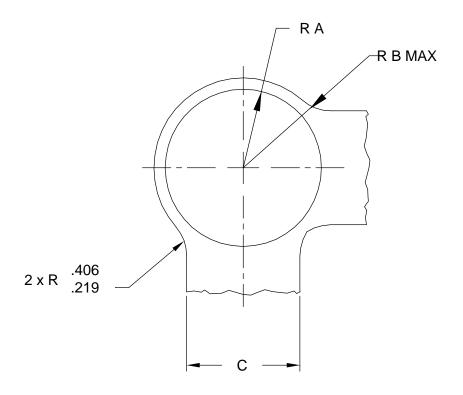
<sup>1/</sup> Aluminum alloy 2014 and 2024 parts are cancelled. Use Aluminum alloy 7075 parts for new design. Cancelled parts may be used till stock is exhausted.

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# MOUNTING END DIMENSIONS

FIGURE 2. Mounting end.



# CONTOUR DIMENSIONS EXTERNAL

FIGURE 3. External contour.

TABLE II. Dimensions for contour and mounting end.

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Type Fittinh	A ± .031	B Max <u>1</u> /	C Max <u>2</u> /	D Max <u>2</u> /	F ± .0005	G ± .004	H ± .005	J ± .010	K ± .010	L ± .004	M ± .005
Low Flow	.562	.636	.844	.995	.5000	.664	1.000	.797	.312	.249	.143
High Flow	.812	.909	1.156	1.188	.8125	1.045	1.188	1.078	.375	.283	.175

- 1/ B radius is the max envelope dimension for forging draft, flash, and other projections on A radius.
- 2/ Dimensions C and D represent the max envelope which shall be large enough to meet final part dimensions.

#### REQUIREMENTS:

- 1. The requirements for acquiring the product described herein shall consist of this specification sheet and SAE AS4875.
- 2. Material: Aluminum alloy 7075-T73 per AMS-QQ-A-225/9. Aluminum alloy forging, 7075-T73 per AMS-QQ-A-367.
- 3. Finish: See acquisition standard SAE AS4875. Aluminum alloy 7075 fittings shall be dyed brown.
- 4. All machined surfaces shall be finished to 250  $\mu$ in R<sub>a</sub>, unless otherwise specified. Surface finish shall be in accordance with ASME B46.1.
- 5. Fittings shall be free of all burrs and slivers.

### NOTES:

- 1. Dimensions in inches. Unless otherwise specified, tolerances: decimals  $\pm$  .010, angles  $\pm$  1/2°.
- 2. Dimensioning and tolerancing per ASME Y14.5.
- 3. Part Identification number (PIN)

Example of PIN: MS21959W4L

	MS21959	W	4L
Basic part identifier —			
Material code "W" replaces the dash (-) for al alloy 7075			
Size 4 low flow fitting —			

# MS21959C

Custodians: Air Force - 99 Navy - AS DLA - CC Preparing activity: DLA - CC

(Project 4730-0821)

Review activities: Air Force - 82 Navy - SA